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## NOTICE OF ALLOWANCE AND FEE(S) DUE

52349 7590 10/10/2008 WENDEROTH, LIND & PONACK L.L.P. 2033 K. STREET, NW SUITE 800

WASHINGTON DC 20006

EXAMINER						
LE, HUYEN D						
ART UNIT	PAPER NUMBER					
2615	•					
DATE MAILED: 10/10/2008						

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/594,504 09/28/2006		09/28/2006	Mitsukazu Kuze	2006_1654A	1690			
	THE COLUMNIANTION, LOUISEDEAVED SYSTEM							

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	or transr ig the Pa ierwise ii	nitting the ISSU tent, advance or n Block 1, by (a	rders and notification of a) specifying a new corn	maintenance fees verspondence address	vill be and/o	mailed to the current r (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for
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WASHINGTON	, DC 20006							(Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/594,504	09/28/2006			Mitsukazu Kuze			2006_1654A	1690
TITLE OF INVENTION	: LOUDSPEAKER SYS	TEM						
APPLN, TYPE	SMALL ENTITY	ISSU	E FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300	\$0		\$1810	01/12/2009
EXAM	INER	A	RT UNIT	CLASS-SUBCLASS	7			
LE, HU			2615	381-386000	_			
I. Change of correspondence address or indication of "Fee Address" (3 CFR 1.853).  Change of correspondence address (or Change of Correspondence Address form FDOS/B1/22) attacked.  The Address from FDOS/B1/23 (astacked).  The Address indication for "Fee Address' Indication form FDOS/B1/47, for 0.9-0.2 or more receal attached. Use of a Custom Number is required.  ASSIGNEE NAME AND RISIDENCE DATA TO BE PRINTED O			orrespondence on form of a Customer	er or agents OR, alternatively.  (2) the same of a single firm flaving as a member a crystered attorney or agents and the names of up to 2 registered attorney or agents. If no name is 3 listed, no name will be printed.				
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4a. The following fee(s):  Issue Fee Publication Fee (N	o small entity discount p	permitted		D. Payment of Fee(s): (Plo  A check is enclosed.  Payment by credit or  The Director is heretoverpayment, to Dep	ard. Form PTO-2038	is att	iched.	shown above) ficiency, or credit any n extra copy of this form).
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) wi tes Paten	II not be accepted t and Trademark	d from anyone other than Office.	the applicant; a reg	stered	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
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52349 75	90 10/10/2008	EXAMINER			
WENDEROTH,	LIND & PONACK I	LE, HUYEN D			
2033 K. STREET,	NW		ART UNIT	PAPER NUMBER	
SUITE 800 WASHINGTON, I	OC 20006	2615 DATE MAIL ED: 10/10/200	8		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 317 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 317 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/594 504 KUZE ET AL. Notice of Allowability Examiner Art Unit HUYEN D. LE 2615 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 9/28/06. 2. The allowed claim(s) is/are 1-8. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 9/28/06 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material Other .

## REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

None of prior art teaches a loudspeaker system that comprises a cabinet, a loudspeaker unit fitted to the cabinet, an absorbent disposed inside a hollow chamber within the cabinet, and a phase inverting mechanism, as specifically claimed in claim 1, wherein the absorbent physically absorbs a gas inside the hollow chamber and the phase inverting mechanism inverts the phase by resonating with a sound of a specific frequency radiated from the loudspeaker unit into the hollow chamber and radiates the sound to outside, and wherein the phase inverting mechanism includes watertight means for preventing invasion of moisture into inside the hollow chamber from outside the cabinet through the phase inverting mechanism.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tsutsui et al. (U.S. patent 3,987,258) teaches a water-proof sound apparatus having protecting means for the air-permeable and water-impermeable.

Furukawa (U.S. patent 4,953,655) teaches an acoustic apparatus which employs a Helmholtz resonator having a resonance port. Application/Control Number: 10/594,504

Art Unit: 2615

Almasy (U.S. patent 5,073,937) teaches a construction of a low frequency loudspeaker system.

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to HUYEN D. LE whose telephone number is (571) 272-7502. The
examiner can normally be reached on 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SUHAN NI can be reached on (571) 272-7505. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HUYEN D. LE/ Primary Examiner, Art Unit 2615

HL September 23, 2008 Art Unit: 2615